AMENDMENTS TO THE CLAIMS

- 1-54. (CANCELLED)
- 55. (CURRENTLY AMENDED) An isolated sweet taste receptor comprising a T1R3 polypeptide, wherein the T1R3 polypeptide is encoded by a nucleotide sequence that has at least 90% sequence identity 93% amino acid sequence identity to a nucleotide sequence encoding anamino acid sequence of SEQ ID NO: 20, 23, or 25 SEQ ID NO: 20 or at least 94% amino acid sequence identity to SEQ ID NO:23.
 - 56. (CANCELLED)
- (CURRENTLY AMENDED) The isolated receptor of claim 55, wherein the TIR3
 polypeptide has an amino acid sequence of SEQ ID NO: 20, 23, or 25
- (PREVIOUSLY PRESENTED) The isolated receptor of claim 55, wherein the receptor comprises a T1R3 polypeptide and a heterologous polypeptide.
- (PREVIOUSLY PRESENTED) The isolated receptor of claim 58, wherein the
 T1R3 polypeptide and the heterologous polypeptide are non-covalently linked.
- (PREVIOUSLY PRESENTED) The isolated receptor of claim 58, wherein the
 T1R3 polypeptide and the heterologous polypeptide are covalently linked.
- 61. (CURRENTLY AMENDED) The isolated receptor of claim 58, wherein the heterologous polypeptide is a T1R2 polypeptide that is encoded by a nucleotide sequence that has at least 90% sequence identity 92% amino acid sequence identity to a nucleotide sequence encoding an amino acid sequence of SEQ ID NO: 7 or 8 SEQ ID NO: 8.
 - 62. (CANCELLED)
- (CURRENTLY AMENDED) The isolated receptor of elaim 62 claim 61, wherein the T1R2 polypeptide has an amino acid sequence of SEQ ID-NO: 7 or 8 SEQ ID NO: 8.
- (PREVIOUSLY PRESENTED) The isolated receptor of claim 55, wherein the receptor has G protein coupled receptor activity.
- (CURRENTLY AMENDED) The isolated receptor of claim 55, wherein the receptor specifically binds to antibodies raised against SEQ ID NO: 20, 23, or 25

66-88. (CANCELLED)

89. (NEW). The isolated sweet taste receptor of claim 55 comprising a T1R3 polypeptide having an amino acid sequence of SEQ ID NO:20 or SEQ ID NO:23 and a T1R2 polypeptide having an amino acid sequence of SEQ ID NO:8.

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